EXHAUST EMISSION DATA SHEET

MQ POWER GENERATOR SET

Model: DCA20SPXU4F



The engine used in this generator set is certified to comply with United States EPA Tier 4 and CARB Mobile Off-Highway emission regulations.

ENGINE D	ATA							
Manufacturer	ISUZU			Bore:	3.35	in.	(85	mm)
Model:	4LE2T			Stroke:	3.78	in.	(96	mm)
Туре:	4-Cycle, In-Line, 4-Cylind	er, Diesel		Displacement	t: 133	cid	(2.2	liters)
Aspiration:	Turbocharger, ECM, EGR Injection	Compression	Ratio		17.6	:1		
PERFORM	ANCE DATA							
SAE Gross H	P @ ¹⁸⁰⁰ RPM (60 Hz) Ra	ted 40	.2					
Load Fuel Co	nsumption (gal/Hr) Rated	1.6	62					
Load Exhaust	t Gas Flow (cfm) Rated Lo	bad 14	8					
Exhaust Gas	Temperature (°F)	84	7					
Ur	nited States EPA - M	lobile O	ff-Highway Tier 4	Limits -			25	≤~<50 BHP
Crit	eria Pollutant	Emis	sion Requirements	Certifie	ed Eng	ine E	missio	ons
NOx (Oxides	of Nitrogen as NO2)	N/A	gr/bhp-hr	N/A	gr/b	hp-hr		
HC (Total Unit	ourned Hydrocarbons)	N/A	gr/bhp-hr	N/A	gr/b	hp-hr		
NOx + HC (Co	ombined)	N/A	gr/bhp-hr	N/A	gr/b	hp-hr		
CO (Carbon	Monoxide)	4.10	gr/bhp-hr	0.022	gr/b	hp-hr		
PM (Particula	te Matter)	0.022	gr/bhp-hr	0.022	gr/b	hp-hr		
NMHC (Non-N	lethane Hydrocarbons)	N/A	gr/bhp-hr	N/A	gr/b	hp-hr		
NMHC + NOx		3.50	gr/bhp-hr	2.75	gr/b	hp-hr		
EPA Engine F	Family: LS2	ZXL02.2Z	ГВ					
EPA Certifica	te of Conformance: LSZ	ZXL02.2Z	ГВ-002					
ARB Executiv	Executive Order: U-R-006-0479							
Effective Date	e: Mo	del Year	2020					
-	operation with excessive Im limits, or with imprope			•				

Structure Data France Contractor	UNITED STATES ENVIRONM 2020 MC CERTIFICATE WITH THE (AND AIR QU	ICE OF TRANSPORTATION AND AIR QUALITY FARBOR, MICHIGAN 48105		
Certificate Issued To: Isuz (U.S. 1 Certificate Number: LSZXI	Manufacturer or Importer)	Effective Date: 04/26/2019 Expiration Date: 12/31/2020	Byron J/Bunke	er, Division Director nace Division	Issue Date:04/26/2019Revision Date:N/A
Model Year: 2020 Manufacturer Type: Origina Engine Family: LSZXL02.2	5	Ei Fu Ai	obile/Stationary Indicator: Mobile nissions Power Category: 19<=kW lel Type: Diesel 'ter Treatment Devices: Diesel Oxi n-after Treatment Devices: Electr	/<37 dation Catalyst	iR - Cooled
issued with respect to the test of required by 40 CFR Part 1039 This certificate of conformity of documentation required by 40	Clean Air Act (42 U.S.C. section 7547) and 40 CFR P engines which have been found to conform to applicab and produced in the stated model year. covers only those new compression-ignition engines w CFR Part 1039 and which are produced during the me at the menufacture shall account to all insertione do	le requirements and wh which conform in all mat odel year stated on this	ch represent the following engines, erial respects to the design specifical sertificate of the said manufacturer, a	by engine family, more fully describ tions that applied to those engines d as defined in 40 CFR Part 1039.	bed in the documentation

It is a term of this certificate that the manufacturer shall consent to all inspections described in 40 CFR 1068 and authorized in a warrant or court order. Failure to comply with the requirements of such a warrant or court order may lead to revocation or suspension of this certificate for reasons specified in 40 CFR Part 1039. It is also a term of this certificate that this certificate may be revoked or suspended or rendered void *ab initio* for other reasons specified in 40 CFR Part 1039.

ANAL PROTECTION

This certificate does not cover engines sold, offered for sale, or introduced, or delivered for introduction, into commerce in the U.S. prior to the effective date of the certificate.

CALIFORNIA AIR RESOURCES BOARD	ISUZU MOTORS LIMITED	EXECUTIVE ORDER U-R-006-0479 New Off-Road Compression-Ignition Engines
-----------------------------------	----------------------	--

Pursuant to the authority vested in California Air Resources Board by Sections 43013, 43018, 43101, 43102, 43104 and 43105 of the Health and Safety Code; and

Pursuant to the authority vested in the undersigned by Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-14-012;

IT IS ORDERED AND RESOLVED: That the following compression-ignition engines and emission control systems produced by the manufacturer are certified as described below for use in off-road equipment. Production engines shall be in all material respects the same as those for which certification is granted.

MODEL YEAR	ENGINE FAMILY	DISPLACEMENT (liters)	FUEL TYPE	USEFUL LIFE (hours)
2020	LSZXL02.2ZTB	2.179	Diesel	5000
SPECIAL	FEATURES & EMISSION	CONTROL SYSTEMS	TYPICAL EQUIPMENT	APPLICATION
	Control Module, Exhaus Dxidation Catalyst, Turbo Direction Injectio	charger, Electronic	Generator S	Get

The engine models and codes are attached.

The following are the exhaust certification standards (STD) and certification levels (CERT) for non-methane hydrocarbon (NMHC), oxides of nitrogen (NOx), or non-methane hydrocarbon plus oxides of nitrogen (NMHC+NOx), carbon monoxide (CO), and particulate matter (PM) in grams per kilowatt-hour (g/kw-hr), and the opacity-of-smoke certification standards and certification levels in percent (%) during acceleration (Accel), lugging (Lug), and the peak value from either mode (Peak) for this engine family (Title 13, California Code of Regulations, (13 CCR) Section 2423):

RATED POWER CLASS	EMISSION		EXHAUST (g/kw-hr)					OPACITY (%)		b)
	STANDARD CATEGORY		NMHC	NOx	NMHC+NOx	co	PM	ACCEL	LUG	PEAK
19 ≤ kW < 37	Tier 4 Final	STD	N/A	N/A	4.7	5.5	0.03	N/A	N/A	N/A
		CERT			3.7	0.03	0.03			

BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has submitted the information and materials to demonstrate certification compliance with 13 CCR Section 2424 (emission control labels), and 13 CCR Sections 2425 and 2426 (emission control system warranty).

Engines certified under this Executive Order must conform to all applicable California emission regulations.

This Executive Order is only granted to the engine family and model-year listed above. Engines in this family that are produced for any other model-year are not covered by this Executive Order.

Executed at El Monte, California on this

day of May 2019.

Allen Lyops, Chief Emissions Compliance, Automotive Regulations and Science Division

ENGINE MODEL SUMMARY

ATTACHMENT 1 OF 1

OF 1 CARB EO:

DATE:

U-R-006-0479 05/02/19

ENGINE FAMILY	ENGINE CODE	ENGINE MODEL	BHP@RPM (SAE Gross)	FUEL RATE: mm3/stroke @peak HP	FUEL RATE: Ibs/hr @peak HP	TORQUE@RPM Ibs ft	FUEL RATE: mm3/stroke @peak TORQUE	FUEL RATE: Ibs/hr @peak TORQUE
LSZXL02.2ZTB	4LE2TDZBA-01	BZ-4LE2T	40.2@1800 (30.0 kW)	36.0	14.4	117 @ 1800 (159 Nm)	36.0	14.4
							-	

ENGINE FAMILY	ENGINE	ENGINE MODEL	EMISSION CONTROL DEVICE Per SAE J1930
LSZXL02.2ZTB	4LE2TDZBA-01	BZ-4LE2T	ECM, TC, DFI, EGR, DOC